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IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Art Unit 1645

Application of Raul G. Barletta, et al.
Serial No. 09/759,287
Filed January 11, 2001
Confirmation No. 9782
For IDENTIFICATION OF VIRULENCE DETERMINANTS
Examiner: R. Swartz

10/A
Jm
9/18/02

September 10, 2002

AMENDMENT A

TO THE COMMISSIONER OF PATENTS AND TRADEMARKS
WASHINGTON, D.C. 20231

SIR:

In response to the Office action dated April 17, 2002, please enter the following amendments:

IN THE SPECIFICATION:

Replace Table 1 on page 25 with:

TABLE 1

Mutation of *M. paratuberculosis* through Transposon Mutagenesis

Expt. ¹	OD ₆₀₀ culture ²	Ratio Ph/B ³	Ads Time (hours) ⁴	Transd. Freq. ⁵	Transp Freq ⁶	Kan ^r mutants ⁷	N ⁸	P value ⁹
I	0.48	20	4	5.4x10 ⁻⁸	1.0x10 ⁻⁶	1344	1344	26%
II	0.48	200	4	5.1x10 ⁻⁹	9.8x10 ⁻⁷	1275	2619	42%
III	0.38	25	6	7.0x10 ⁻⁹	1.8x10 ⁻⁷	176	2795	46%
IV	0.38	25	24	5.4x10 ⁻⁹	1.4x10 ⁻⁷	136	2931	48%
V	0.75	350	4	1.1x10 ⁻⁹	3.6x10 ⁻⁵	2689	5620	71%